

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A portable slave device which is connected through a predetermined coupling device to a host device comprising a file system and an application program, the slave device comprising:

a media driver for performing connection to the file system of the host device via the predetermined coupling device according to a predetermined protocol, wherein the media driver comprises at least one of a control and error correction layer, a logical-to-physical conversion layer and a file system drive layer; and

a storage device which is connected to the file system of the host device via the media driver, wherein at least a portion of the storage device operates as a storage device of the host device when ~~a universal~~ the application program is used by the host device,

wherein the media device is logically connected to the file system according to a predetermined protocol between one of (a) the control and error correction layer of the media driver and a control and error correction layer of the file system such that data is transmitted from the control and error correction layer of the media driver of the slave device to the application program of the host device via the control and error correction layer of the file system of the host device, (b) the logical-to-physical conversion layer of the media driver and a

logical-to-physical conversion layer of the file system of the host device such that data is transmitted from the control and error correction layer and the logical-to-physical conversion layer of the media driver of the slave device to the application program via the logical-to-physical conversion layer and file system drive layer of the file system of the host device, and (c) the file system drive layer of the media driver and a file system drive layer of the file system of the host device such that data transmitted via the control and error correction layer, the logical-to-physical conversion layer and the file system drive layer of the media driver of the slave device is sent to the application program via the file system drive layer of the file system of the host device.

2. (Currently Amended) The slave device of claim 1, wherein the ~~media driver~~ comprises a control and error correction unit for controlling of the media driver controls the storage device and ~~detecting~~ detects and ~~correcting~~ corrects errors.

3. (Canceled)

4. (Currently Amended) The slave device of claim 2, wherein the ~~media driver further~~ comprises a logical-to-physical converter for converting of the media driver converts logical location information used by the file system into physical location information.

5. (Canceled)

6. (Currently Amended) The slave device of claim 4, wherein the ~~media driver further comprises a~~ the file system driver for abstracting of the media driver abstracts data stored in the storage device of the slave device to allow the application program to access the data stored in the storage device as a file using the logical location information.

7. (Canceled)

8. (Currently Amended) A host device connected to a portable slave device comprising a storage device through a predetermined coupling device, the host device comprising a file system for performing connection to a top layer of the slave device according to a predetermined protocol so that at least a portion of the storage device of the slave device operates as a storage device of the host device, wherein the file system comprises:

a control and error correction layer for detecting and correcting errors;

a logical-to-physical conversion layer for converting logical location information used by the file system into physical location information; and

a file system drive layer for abstracting data stored in the storage device of the slave device to allow application programs to access the data as a file using the logical location information.

9. (Original) The host device of claim 8, further comprising a top layer identification unit for identifying the top layer of the slave device during initialization for connection to the slave device.

10. (Canceled)

11. (Currently Amended) A data sharing method between a host device and a portable slave device, comprising the steps of:

(a) physically connecting the host device to the slave device through predetermined coupling device;

(b) performing connection between the host device and the slave device according to a predetermined protocol between a top layer of a media driver of the slave device and a file system of the host device so that at least part of a storage device of the slave device operates as a storage device of the host device; and

(c) accessing the storage device of the slave device by the host device via the file system of the host device, the top layer of the media driver of the slave device and a bottom layer of the media driver of the slave system.

12. (Currently Amended) The method of claim 11, wherein step (a) further comprises identifying the top layer of the media driver of the slave device.

13. (Currently Amended) The method of claim 12, wherein step (b) comprises performing connection according to a predetermined protocol between a control and error correction layer of the host device, which controls the storage device and detects and corrects errors, and a control and error correction layer of the slave device, when the top layer of the slave device is identified as the control and error correction layer for detecting and correcting errors in step (a).

14. (Currently Amended) The method of claim 12, wherein step (b) comprises performing connection according to a predetermined protocol between a logical-to-physical conversion layer of the host device, which converts logical location information used by the file system into physical location information, and a logical-to-physical conversion layer of the media driver of the slave device, when the top layer of the media driver of the slave device is identified as the logical-to-physical conversion layer for converting logical location information used by the file system into physical location information in step (a).

15. (Currently Amended) The method of claim 12, wherein the step (b) comprises performing connection according to a predetermined protocol between a file system drive layer of the host device, which abstracts data stored in the storage device of the slave device to allow application programs to access the data as a file using logical location information, and a file system drive layer of the media driver of the slave device, when the top layer of the media driver of the slave device is identified as the file system drive layer for abstracting data stored in the

storage device of the slave device to allow application programs to access the data as a file using logical location information in the step (a).

16. (Currently Amended) ~~[[The]]~~ A portable slave device of claim 1 which is connected through a predetermined coupling device to a host device comprising a file system and an application program, the slave device comprising:

a media driver for performing connection to the file system of the host device via the predetermined coupling device according to a predetermined protocol; and

a storage device which is connected to the file system of the host device via the media driver, wherein at least a portion of the storage device operates as a storage device of the host device when the application program is used by the host device,

wherein the file system of the host device comprises a control and error correction layer, a logical-to-physical conversion layer, and a file system drive layer, the media driver comprises a control and error correction layer, and the slave device is logically connected to the host device according to a predetermined protocol between the control and error correction layer of the media driver of the slave device and the control and error correction layer of the file system of the host device such that data is transmitted from the control and error correction layer of the media driver of the slave device to the application program of the host device via the control and error correction layer, the logical-to-physical conversion layer and the file system drive layer of the file system of the host device.

17. (Currently Amended) ~~[[The]]~~ A portable slave device of claim 1 which is connected through a predetermined coupling device to a host device comprising a file system and an application program, the slave device comprising:

a media driver for performing connection to the file system of the host device via the predetermined coupling device according to a predetermined protocol; and

a storage device which is connected to the file system of the host device via the media driver, wherein at least a portion of the storage device operates as a storage device of the host device when the application program is used by the host device,

wherein the file system of the host device comprises a logical-to-physical conversion layer and a file system drive layer, the media driver comprises a control and error correction layer and a logical-to-physical conversion layer, and the slave device is logically connected to the host device according to a predetermined protocol between the logical-to-physical conversion layer of the media driver of the slave device and the logical-to-physical conversion layer of the file system of the host device such that data is transmitted from the control and error correction layer and the logical-to-physical conversion layer of the media driver of the slave device to the application program via the logical-to-physical conversion layer and file system drive layer of the file system of the host device.

18. (Currently Amended) ~~[[The]]~~ A portable slave device of claim 1 which is connected through a predetermined coupling device to a host device comprising a file system and an application program, the slave device comprising:

a media driver for performing connection to the file system of the host device via the predetermined coupling device according to a predetermined protocol; and

a storage device which is connected to the file system of the host device via the media driver, wherein at least a portion of the storage device operates as a storage device of the host device when the application program is used by the host device,

wherein the file system of the host device comprises a file system drive layer, the media driver comprises a control and error correction layer, a logical-to-physical conversion layer, and a file system drive layer, and the slave device is logically connected to the host device according to a predetermined protocol between the file system drive layer of the media driver of the slave device and the file system drive layer of the file system of the host device such that data transmitted via the control and error correction layer, the logical-to-physical conversion layer and the file system drive layer of the media driver of the slave device is sent to the application program via the file system drive layer of the file system of the host device.

19. (Currently Amended) ~~[[The]]~~ A host device of claim 8, further comprising connected to a portable slave device comprising a storage device through a predetermined coupling device, the host device comprising:

a file system for performing connection to a top layer of the slave device according to a predetermined protocol so that at least a portion of the storage device of the slave device operates as a storage device of the host device; and

an application program, wherein the file system of the host device comprises a control and error correction layer, a logical-to-physical conversion layer, and a file system drive layer, the slave device comprises a media driver including a control and error correction layer, and the host device is logically connected to the slave device according to a predetermined protocol between the control and error correction layer of the media driver of the slave device and the control and error correction layer of the file system of the host device such that data is transmitted from the control and error correction layer of the media driver of the slave device to the application program of the host device via the control and error correction layer, the logical-to-physical conversion layer and the file system drive layer of the file system of the host device.

20. (Currently Amended) ~~[[The]]~~ A host device of claim 8, further comprising connected to a portable slave device comprising a storage device through a predetermined coupling device, the host device comprising:

a file system for performing connection to a top layer of the slave device according to a predetermined protocol so that at least a portion of the storage device of the slave device operates as a storage device of the host device; and

an application program, wherein the file system of the host device comprises a logical-to-physical conversion layer and a file system drive layer, the media driver comprises a media driver including a control and error correction layer and a logical-to-physical conversion layer, and the host device is logically connected to the slave device according to a predetermined protocol between the logical-to-physical conversion layer of the media driver of the slave device

and the logical-to-physical conversion layer of the file system of the host device such that data is transmitted from the control and error correction layer and the logical-to-physical conversion layer of the media driver of the slave device to the application program via the logical-to-physical conversion layer and file system drive layer of the file system of the host device.

21. (Currently Amended) ~~[[The]]~~ A host device of claim 8, further comprising connected to a portable slave device comprising a storage device through a predetermined coupling device, the host device comprising:

a file system for performing connection to a top layer of the slave device according to a predetermined protocol so that at least a portion of the storage device of the slave device operates as a storage device of the host device; and

an application program, wherein the file system of the host device comprises a file system drive layer, the media driver comprises a control and error correction layer, a logical-to-physical conversion layer, and a file system drive layer, and the host device is logically connected to the slave device according to a predetermined protocol between the file system drive layer of the media driver of the slave device and the file system drive layer of the file system of the host device such that data transmitted via the control and error correction layer, the logical-to-physical conversion layer and the file system drive layer of the media driver of the slave device is sent to the application program via the file system drive layer of the file system of the host device.

22. (Currently Amended) ~~The method of claim 11~~ A data sharing method between a host device and a portable slave device, wherein the host device comprises an application program[[,]] and [[the]] a file system [[of the host device]] which includes a control and error correction layer, a logical-to-physical conversion layer[[,]] and a file system drive layer, ~~wherein~~ and the slave device comprises a media driver including a control and error correction layer, the method comprising the steps of:

(a) physically connecting the host device to the slave device through predetermined coupling device;

(b) performing connection between the host device and the slave device according to a predetermined protocol between a top layer of the slave device and the file system of the host device so that at least part of a storage device of the slave device operates as a storage device of the host device; and

(c) accessing the storage device of the slave device by the host device via the file system of the host device, the top layer of the slave device and a bottom layer of the slave system,

wherein step (b) comprises performing connection between the host device and the slave device according to a predetermined protocol between the control and error correction layer of the media driver of the slave device and the control and error correction layer of the file system of the host device, and

wherein step (c) comprises transmitting data from the control and error correction layer of the media driver of the slave device to the application program of the host device via the

control and error correction layer, the logical-to-physical conversion layer and the file system drive layer of the file system of the host device.

23. (Currently Amended) ~~The method of claim 11~~ A data sharing method between a host device and a portable slave device, wherein the host device comprises an application program[[,]] and [[the]] a file system of the host device which includes a file system drive layer, [[wherein]] and the slave device comprises a media driver including a control and error correction layer, a logical-to-physical conversion layer[[,]] and a file system drive layer, the method comprising the steps of:

(a) physically connecting the host device to the slave device through predetermined coupling device;

(b) performing connection between the host device and the slave device according to a predetermined protocol between a top layer of the slave device and the file system of the host device so that at least part of a storage device of the slave device operates as a storage device of the host device; and

(c) accessing the storage device of the slave device by the host device via the file system of the host device, the top layer of the slave device and a bottom layer of the slave system,

wherein step (b) comprises performing connection between the host device and the slave device according to a predetermined protocol between the file system drive layer of the media driver of the slave device and the file system drive layer of the file system of the host device, and

wherein step (c) comprises transmitting data from the control and error correction layer, the logical-to-physical conversion layer and the file system drive layer of the media driver of the slave device to the application program via the file system drive layer of the file system of the host device.

24. (Currently Amended) ~~The method of claim 11~~ A data sharing method between a host device and a portable slave device, wherein the host device comprises an application program[[,]] and [[the]] a file system of the host device which includes a logical-to-physical conversion layer and a file system drive layer, ~~wherein~~ and the slave device comprises a media driver including a control and error correction layer and a logical-to-physical conversion layer, the method comprising the steps of:

(a) physically connecting the host device to the slave device through predetermined coupling device;

(b) performing connection between the host device and the slave device according to a predetermined protocol between a top layer of the slave device and the file system of the host device so that at least part of a storage device of the slave device operates as a storage device of the host device; and

(c) accessing the storage device of the slave device by the host device via the file system of the host device, the top layer of the slave device and a bottom layer of the slave system,

wherein step (b) comprises performing connection between the host device and the slave device according to a predetermined protocol between the logical-to-physical conversion layer of

the media driver of the slave device and the logical-to-physical conversion layer of the file system of the host device, and

wherein step (c) comprises transmitting data from the control and error correction layer and the logical-to-physical conversion layer of the media driver of the slave device to the application program via the logical-to-physical conversion layer and file system drive layer of the file system of the host device.

25. (Previously Presented) The slave device of claim 1, wherein the slave device is a portable data terminal, zip drive, MP3 player or digital camera, and the host device is a personal computer.